Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						Estimate Cost Rs.			150.00 Lakhs
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
	Basic rate	76.00							
	11% AD-HOC	8.36							
	Sub Total-1	84.36							
	6% AW	5.06							
	Sub Total-2	89.42							
	SFS 707								
	Top slab								
	SFS 707								
	3rd cross	2	410.00	1.00		820.00			
	cross road-1	2	79.00	1.00		158.00			
	cross road-2	2	33.00	1.00		66.00			
	Bus stand	2	256.00	1.00		512.00			
	cross road-3	2	134.00	1.00		268.00			
	cross road-4	2	285.00	1.00		570.00			
	cross road-5	2	88.00	1.00		176.00			
	Opp Govt cenral lib	2	84.00	1.00		168.00			
	Ganapathi temple	2	101.00	1.00		202.00			
	cross road-7	2	98.00	1.00		196.00			
	Drain slab								
	SFS 707								
	3rd cross	2	410.00	1.65		1353.00			
	cross road-1	2	79.00	1.65		260.70			
	cross road-2	2	33.00	1.65		108.90			
	Bus stand	2	256.00	1.65		844.80			
	cross road-3	2	134.00	1.65		442.20			
	cross road-4	2	285.00	1.65		940.50			
	cross road-5	2	88.00	1.65		290.40			
	Opp Govt cenral lib	2	84.00	1.65		277.20			
	Ganapathi temple	2	101.00	1.65		333.30			
	cross road-7	2	98.00	1.65		323.40			
	Total Qty					**8310.40**			
	Consider 30% of total Qty					**2493.12**			
						2493.12	**Sqm**	**89.42**	**222938.78**
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-								
	Basic rate	628.00							
	11% AD-HOC	69.08							
	Sub Total-1	697.08							
	6% AW	41.82							
	Sub Total-2	738.90							
	Consider 10% of Total qty of Item no -1					831.04			
						831.04	**Sqm**	**738.90**	**614059.44**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge								
	Basic rate	2100.00							
	Consider 10% of Total qty of Item no -1					313.60			
						313.60	**Sqm**	**2100.00**	**658560.00**
4	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub Total-1	91.02							
	6% AW	5.46							
	Sub Total-2	96.48							
	10km ld & lt, transport	100.00							
	Sub Total-3	196.48							
	SFS 707								
	3rd cross	2	410.00	0.50	0.50	205.00			
	cross road-1	2	79.00	0.50	0.50	39.50			
	cross road-2	2	33.00	0.50	0.50	16.50			
	Bus stand	2	256.00	0.50	0.50	128.00			
	cross road-3	2	134.00	0.50	0.50	67.00			
	cross road-4	2	285.00	0.50	0.50	142.50			
	cross road-5	2	88.00	0.50	0.50	44.00			
	Opp Govt cenral lib	2	84.00	0.50	0.50	42.00			
	Ganapathi temple	2	101.00	0.50	0.50	50.50			
	cross road-7	2	98.00	0.50	0.50	49.00			
	SFS 707								
	3rd cross	1	410.00	1.20	0.40	196.80			
	cross road-1	1	79.00	1.20	0.40	37.92			
	cross road-2	1	33.00	1.20	0.40	15.84			
	Bus stand	1	256.00	1.20	0.40	122.88			
	cross road-3	1	134.00	1.20	0.40	64.32			
	cross road-4	1	285.00	1.20	0.40	136.80			
	cross road-5	1	88.00	1.20	0.40	42.24			
	Opp Govt cenral lib	1	84.00	1.20	0.40	40.32			
	Ganapathi temple	1	101.00	1.20	0.35	42.42			
	cross road-7	1	98.00	1.20	0.35	41.16			
	Bad reaches	10	12.00	7.00	0.35	294.00			
	culvert	2	7.00	1.50	1.20	25.20			
						1843.90	**Cum**	**196.48**	**362291.68**
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub Total-1	5601.06							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	6% AW	336.06							
	Sub Total-2	5937.12							
	CC Road								
	CC Road -1	1	80.00	3.80	0.15	45.60			
	CC Road -2	1	30.00	5.10	0.15	22.95			
	CC Road -3	1	20.00	5.40	0.15	16.20			
	CC Road -4	1	62.00	3.80	0.15	35.34			
	CC Road -5	1	82.00	5.10	0.15	62.73			
	CC Road -6	1	43.00	4.00	0.15	25.80			
	CC Road -7	1	42.00	3.90	0.15	24.57			
	CC Road -8	1	63.00	4.40	0.15	41.58			
	CC Road -9	1	34.00	5.00	0.15	25.50			
	culvert	2	7.00	1.50	0.15	3.15			
						303.42	**Cum**	**5937.12**	**1801442.04**
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
	Basic rate	5005.00							
	11% AD-HOC	550.55							
	Sub Total-1	5555.55							
	6% AW	333.33							
	Sub Total-2	5888.88							
	culvert	4	7.00	0.45	0.70	8.82			
						8.82	**Cum**	**5888.88**	**51,939.95**
7	KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
	Basic rate	5249.00							
	11% AD-HOC	577.39							
	Sub Total-1	5826.39							
	6% AW	349.58							
	Sub Total-2	6175.97							
	culvert	4	7.00	0.45	0.10	1.26			
						1.26	**Cum**	**6175.97**	**7,781.73**
8	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge (Data rate)								
	Basic rate	5111.00							
		2	7.00	1.50		21.00			
						21.00	**Sqm**	**5111.00**	**107331.00**
9	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
	Basic rate	1571.00							
	11% AD-HOC	172.81							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Sub Total-1	1743.81							
	6% AW	104.63							
	Sub Total-2	1848.44							
	SFS 707								
	3rd cross	1	410.00	1.20	0.150	73.80			
	cross road-1	1	79.00	1.20	0.150	14.22			
	cross road-2	1	33.00	1.20	0.150	5.94			
	Bus stand	1	256.00	1.20	0.150	46.08			
	cross road-3	1	134.00	1.20	0.150	24.12			
	cross road-4	1	285.00	1.20	0.150	51.30			
	cross road-5	1	88.00	1.20	0.150	15.84			
	Opp Govt cenral lib	1	84.00	1.20	0.150	15.12			
	Ganapathi temple	1	101.00	1.20	0.150	18.18			
	cross road-7	1	98.00	1.20	0.150	17.64			
	Bad reaches	10	12.00	7.00	0.150	126.00			
						408.24	**Cum**	**1848.44**	**754606.57**
10	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub Total-1	1851.48							
	6% AW	111.09							
	Sub Total-2	1962.57							
	SFS 707								
	3rd cross	1	410.00	1.20	0.225	110.70			
	cross road-1	1	79.00	1.20	0.225	21.33			
	cross road-2	1	33.00	1.20	0.225	8.91			
	Bus stand	1	256.00	1.20	0.225	69.12			
	cross road-3	1	134.00	1.20	0.225	36.18			
	cross road-4	1	285.00	1.20	0.225	76.95			
	cross road-5	1	88.00	1.20	0.225	23.76			
	Opp Govt cenral lib	1	84.00	1.20	0.225	22.68			
	Ganapathi temple	1	101.00	1.20	0.225	27.27			
	cross road-7	1	98.00	1.20	0.225	26.46			
	Bad reaches	10	12.00	7.00	0.225	189.00			
						612.36	**Cum**	**1962.57**	**1201798.63**
11	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Basic rate	26.00							
	11% AD-HOC	2.86							
	Sub Total-1	28.86							
	6% AW	1.73							
	Sub Total-2	30.59							
	SFS 707								
	3rd cross	1	410.00	1.20		492.00			
	cross road-1	1	79.00	1.20		94.80			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road-2	1	33.00	1.20		39.60			
	Bus stand	1	256.00	1.20		307.20			
	cross road-3	1	134.00	1.20		160.80			
	cross road-4	1	285.00	1.20		342.00			
	cross road-5	1	88.00	1.20		105.60			
	Opp Govt cenral lib	1	84.00	1.20		100.80			
	Ganapathi temple	1	101.00	1.20		121.20			
	cross road-7	1	98.00	1.20		117.60			
	Bad reaches	10	12.00	7.00		840.00			
	SFS 707 - Profile correction								
	SFS 707								
	3rd cross	1	410.00	2.30		943.00			
	cross road-1	1	79.00	2.10		165.90			
	cross road-2	1	33.00	2.60		85.80			
	Bus stand	1	256.00	2.50		640.00			
	cross road-3	1	134.00	2.00		268.00			
	cross road-4	1	285.00	2.30		655.50			
	cross road-5	1	88.00	2.40		211.20			
	Opp Govt cenral lib	1	84.00	2.00		168.00			
	Ganapathi temple	1	101.00	2.00		202.00			
	cross road-7	1	98.00	2.50		245.00			
						6306.00	**Sqm**	**30.59**	**192910.63**
12	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
	Basic rate	6717.00							
	11% AD-HOC	738.87							
	Sub Total-1	7455.87							
	6% AW	447.35							
	Sub Total-2	7903.22							
	SFS 707								
	3rd cross	1	410.00	1.20	0.05	24.60			
	cross road-1	1	79.00	1.20	0.05	4.74			
	cross road-2	1	33.00	1.20	0.05	1.98			
	Bus stand	1	256.00	1.20	0.05	15.36			
	cross road-3	1	134.00	1.20	0.05	8.04			
	cross road-4	1	285.00	1.20	0.05	17.10			
	cross road-5	1	88.00	1.20	0.05	5.28			
	Opp Govt cenral lib	1	84.00	1.20	0.05	5.04			
	Ganapathi temple	1	101.00	1.20	0.05	6.06			
	cross road-7	1	98.00	1.20	0.05	5.88			
	Bad reaches	10	12.00	7.00	0.05	42.00			
	SFS 707 - Profile correction								
	SFS 707								
	3rd cross	1	410.00	2.30	0.05	47.15			
	cross road-1	1	79.00	2.10	0.05	8.30			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road-2	1	33.00	2.60	0.05	4.29			
	Bus stand	1	256.00	2.50	0.05	32.00			
	cross road-3	1	134.00	2.00	0.05	13.40			
	cross road-4	1	285.00	2.30	0.05	32.78			
	cross road-5	1	88.00	2.40	0.05	10.56			
	Opp Govt cenral lib	1	84.00	2.00	0.05	8.40			
	Ganapathi temple	1	101.00	2.00	0.05	10.10			
	cross road-7	1	98.00	2.50	0.05	12.25			
						315.30	**Cum**	**7903.22**	**2491885.96**
13	KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
	Basic rate	11.00							
	11% AD-HOC	1.21							
	Sub Total-1	12.21							
	6% AW	0.73							
	Sub Total-2	12.94							
	SFS 707								
	3rd cross	1	410.00	6.20		2542.00			
	cross road-1	1	79.00	4.40		347.60			
	cross road-2	1	33.00	5.00		165.00			
	Bus stand	1	256.00	6.00		1536.00			
	cross road-3	1	134.00	4.10		549.40			
	cross road-4	1	285.00	5.60		1596.00			
	cross road-5	1	88.00	3.90		343.20			
	Opp Govt cenral lib	1	84.00	3.30		277.20			
	Ganapathi temple	1	101.00	3.40		343.40			
	cross road-7	1	98.00	3.80		372.40			
						8072.20	**Sqm**	**12.94**	**104475.26**
14	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
	Basic rate	7659.00							
	11% AD-HOC	842.49							
	Sub Total-1	8501.49							
	6% AW	510.09							
	Sub Total-2	9011.58							
	SFS 707								
	3rd cross	1	410.00	6.20	0.04	101.68			
	cross road-1	1	79.00	4.40	0.04	13.90			
	cross road-2	1	33.00	5.00	0.04	6.60			
	Bus stand	1	256.00	6.00	0.04	61.44			
	cross road-3	1	134.00	4.10	0.04	21.98			
	cross road-4	1	285.00	5.60	0.04	63.84			
	cross road-5	1	88.00	3.90	0.04	13.73			
	Opp Govt cenral lib	1	84.00	3.30	0.04	11.09			
	Ganapathi temple	1	101.00	3.40	0.04	13.74			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road-7	1	98.00	3.80	0.04	14.90			
						322.89	**Cum**	**9011.58**	**2909730.85**
15	KSRRB M200-24. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (P.No. 138, I.No. 18.47)								
	Basic rate	781.00							
	11% AD-HOC	85.91							
	Sub Total-1	866.91							
	6% AW	52.01							
	Sub Total-2	918.92							
	CC Road								
	CC Road -1	1	80.00	3.80	0.20	60.80			
	CC Road -2	1	30.00	5.10	0.20	30.60			
	CC Road -3	1	20.00	5.40	0.20	21.60			
	CC Road -4	1	62.00	3.80	0.20	47.12			
	CC Road -5	1	82.00	5.10	0.20	83.64			
	CC Road -6	1	43.00	4.00	0.20	34.40			
	CC Road -7	1	42.00	3.90	0.20	32.76			
	CC Road -8	1	63.00	4.40	0.20	55.44			
	CC Road -9	1	34.00	5.00	0.20	34.00			
						400.36	**Cum**	**918.92**	**367898.81**
16	Construction of un-reinforced plain cement concrete KSRB 4-1.5 : Providing and laying in position plain **cement concrete of mix M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.12, I.No. 4.5)								
	Basic rate	5542.00							
	11% AD-HOC	609.62							
	Sub Total-1	6151.62							
	6% AW	369.10							
	Sub Total-2	6520.72							
	CC Road								
	CC Road -1	1	80.00	3.80	0.15	45.60			
	CC Road -2	1	30.00	5.10	0.15	22.95			
	CC Road -3	1	20.00	5.40	0.15	16.20			
	CC Road -4	1	62.00	3.80	0.15	35.34			
	CC Road -5	1	82.00	5.10	0.15	62.73			
	CC Road -6	1	43.00	4.00	0.15	25.80			
	CC Road -7	1	42.00	3.90	0.15	24.57			
	CC Road -8	1	63.00	4.40	0.15	41.58			
	CC Road -9	1	34.00	5.00	0.15	25.50			
						300.27	**Cum**	**6520.72**	**1957975.75**
17	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No. 22.7)								
	Basic rate	90.00							
	11% AD-HOC	9.90							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Sub Total-1	99.90							
	6% AW	5.99							
	Sub Total-2	105.89							
	CC Road								
	CC Road -1	1	80.00	3.80		304.00			
	CC Road -2	1	30.00	5.10		153.00			
	CC Road -3	1	20.00	5.40		108.00			
	CC Road -4	1	62.00	3.80		235.60			
	CC Road -5	1	82.00	5.10		418.20			
	CC Road -6	1	43.00	4.00		172.00			
	CC Road -7	1	42.00	3.90		163.80			
	CC Road -8	1	63.00	4.40		277.20			
	CC Road -9	1	34.00	5.00		170.00			
						2001.80	**Sqm**	**105.89**	**211978.61**
18	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. - for concrete pavement (P.No.177, I.No. 22.7)								
	Basic rate	115.00							
	11% AD-HOC	12.65							
	Sub Total-1	127.65							
	6% AW	7.66							
	Sub Total-2	135.31							
	CC Road								
	CC Road -1	1	80.00			80.00			
	CC Road -2	1	30.00			30.00			
	CC Road -3	1	20.00			20.00			
	CC Road -4	1	62.00			62.00			
	CC Road -5	1	82.00			82.00			
	CC Road -6	1	43.00			43.00			
	CC Road -7	1	42.00			42.00			
	CC Road -8	1	63.00			63.00			
	CC Road -9	1	34.00			34.00			
						456.00			
		50	3.50			**175.00**			
						631.00	**mtr**	**135.31**	**85,379.98**
19	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
	Basic rate	512.00							
	11% AD-HOC	56.32							
	Sub Total-1	568.32							
	6% AW	34.10							
	Sub Total-2	602.42							
	SFS 707								
	3rd cross	2	410.00	0.10		82.00			
	cross road-1	2	79.00	0.10		15.80			
	cross road-2	2	33.00	0.10		6.60			